

**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
shall not be considered a certified document.**

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

BUNCOMBE COUNTY

DIVISION 13



LOCATION:

- BRIDGE #334 ON INTERSTATE 40 EAST BOUND OVER HOMINY CREEK**
- BRIDGE #339 ON INTERSTATE 40 WEST BOUND OVER HOMINY CREEK**
- BRIDGE #344 ON INTERSTATE 40 EAST BOUND OVER SR 3620 (HOMINY CREEK ROAD)**
- BRIDGE #347 ON INTERSTATE 40 WEST BOUND OVER SR 3620 (HOMINY CREEK ROAD)**
- BRIDGE #352 ON INTERSTATE 40 EAST BOUND OVER FRENCH BROAD RIVER**
- BRIDGE #356 ON INTERSTATE 40 WEST BOUND OVER FRENCH BROAD RIVER**
- BRIDGE #358 ON INTERSTATE 40 EAST BOUND OVER WINERY ROAD**
- BRIDGE #366 ON INTERSTATE 40 WEST BOUND OVER WINERY ROAD**
- BRIDGE #369 ON INTERSTATE 40 EAST BOUND OVER BILTMORE ESTATE ROAD**
- BRIDGE #374 ON INTERSTATE 40 WEST BOUND OVER BILTMORE ESTATE ROAD**
- BRIDGE #377 ON INTERSTATE 40 EAST BOUND OVER APPROACH ROAD**
- BRIDGE #378 ON INTERSTATE 40 WEST BOUND OVER APPROACH ROAD**

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET AND INDEX OF SHEETS
TMP-1A	LIST OF ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-2	GENERAL NOTES
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	WESTBOUND BRIDGE TYPICAL SECTIONS
TMP-5	EASTBOUND BRIDGE TYPICAL SECTIONS

SHEET NO.

TMP-1

TIP PROJECT: I-5889A

TRAFFIC MANAGEMENT STRATEGY

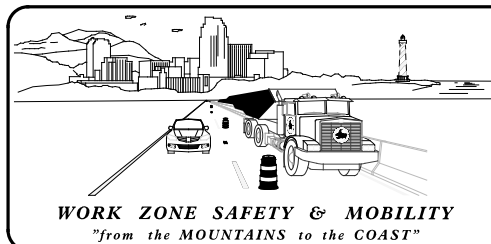
WORK ON BRIDGES #358, #366, #369, #374, #377, AND #378 WILL BE PERFORMED USING TEMPORARY LANE CLOSURES.

WORK UNDER BRIDGES #369, #374, #377 AND #378 WILL BE PERFORMED USING TEMPORARY LANES CLOSURES.

WORK UNDER BRIDGES # 358 AND #366 WILL BE PERFORMED USING TEMPORARY LANE CLOSURES AS WELL AS A ROAD CLOSURE WITH A DETOUR ROUTE.

REFER TO SHEET TMP-3 FOR PHASING.

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 814-5000 FAX: (919) 771-2745

J. E. Hummer, PhD, PE STATE TRAFFIC MANAGEMENT ENGINEER

_____ TRAFFIC CONTROL PROJECT ENGINEER

_____ TRAFFIC CONTROL PROJECT DESIGN ENGINEER

_____ TRAFFIC CONTROL DESIGN ENGINEER



PLANS PREPARED BY: **Gannett Fleming**
2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660
NC Lic. No. F-0270

APPROVED: *Thomas K. Goodwin*
DATE: 11/15/2017

27268C2E163A

\$\$\$ SYSTEMS TIME \$\$\$
\$\$\$ DESIGNATION \$\$\$
\$\$\$ USERNAME \$\$\$

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)

WORK AREA

REMOVAL

USER DEFINED (IF NEEDED)

USER DEFINED (IF NEEDED)

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

- CRYSTAL / CRYSTAL
- CRYSTAL / RED
- YELLOW / YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

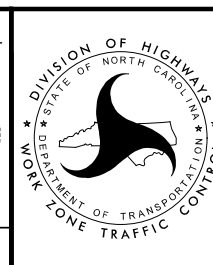
\$\$\$ SYSTEM TIME \$\$\$
 \$\$\$ USER NAME \$\$\$
 \$\$\$ USER ID \$\$\$
 \$\$\$ SESSION ID \$\$\$
 \$\$\$ DRAWING NO. \$\$\$
 \$\$\$ SHEET NO. \$\$\$

PLANS PREPARED BY: **Gannett Fleming**
 2610 Wycliff Road, Suite 102
 Raleigh, NC 27607-3073
 (919) 420-7660
 Excellence Delivered *As Promised* NC Lic. No. F-0270

DocuSigned by:
 APPROVED:
 DATE: 27268C2E163A4D8...
 12/12/2017

SEAL
 012975
 ENGINEER
 THOMAS K. GOODWIN

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



ROADWAY STANDARD
 DRAWINGS & LEGEND

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE; MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-40	6:00 AM TO 7:00 PM MONDAY THRU THURSDAY
I-40	6:00 AM FRIDAY TO 7:00 PM SUNDAY
HOMINY CREEK ROAD	7:00 AM TO 6:00 PM MONDAY THRU FRIDAY
WINERY ROAD, BILTMORE ESTATE ROAD, AND APPROACH ROAD	8:00 AM FRIDAY TO 7:00 PM SUNDAY

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME	HOLIDAY
ALL ROADS	<ol style="list-style-type: none"> FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
BILTMORE ESTATE ROAD	8:00 AM SATURDAY TO 7:00 PM SUNDAY

IN ADDITION, DO NOT CLOSE BILTMORE ESTATE ROAD DURING NOVEMBER AND DECEMBER NOR THE HOLIDAY TIME RESTRICTIONS AS SET FORTH IN NOTE B.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- I) DO NOT INSTALL MORE THAN 1,000 FEET OF LANE CLOSURE ON I-40 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- J) DO NOT INSTALL MORE THAN TWO SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON .

TRAFFIC PATTERN ALTERATIONS

K) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

NOTIFY BILTMORE ESTATE, BRENT MERRELL, DIRECTOR OF ENGINEERING SERVICES AT (828) 225-6335 TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY LANE CLOSURES OR TRAFFIC SHIFTS ON APPROACH ROAD, BILTMORE ESTATE DRIVE, AND WINERY ROAD AND THIRTY (30) CALENDAR DAYS PRIOR TO THE CLOSURE OF BILTMORE ESTATE ROAD.

SIGNING

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

N) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

O) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
I-40	PAINT (2 APPS)	

P) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

MISCELLANEOUS

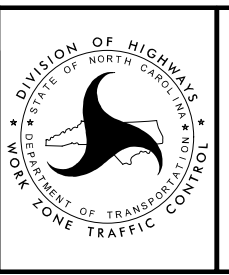
Q) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

\$\$\$ SYSTEM TIME \$\$\$
 \$\$\$ DATE: 12/12/2017 \$\$\$
 \$\$\$ USER: NAME \$\$\$
 \$\$\$ IP: 10.10.10.10 \$\$\$
 \$\$\$ END OF PAGE \$\$\$

DocuSigned by:
 APPROVED:
 DATE: 12/12/2017
 27268C2E163A4D8...

SEAL
12/12/2017

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



GENERAL NOTES

PHASING

NOTES

REPLACE MARKINGS AND RETURN TRAFFIC TO THE CURRENT TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED MILLING & PAVING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE.

BRIDGE #339, #334, #352, AND #356

USE ROADWAY STANDARD DRAWING NO. 1101.02, CLOSE THE APPROPRIATE LANES AND PERFORM THE REQUIRED BRIDGE REHABILITATION OPERATIONS. ONE LANE OF TRAFFIC IN EACH DIRECTION MUST BE MAINTAINED AT ALL TIMES.

BRIDGE #344 AND #347

I-40 - USE ROADWAY STANDARD DRAWING NO. 1101.02, CLOSE THE APPROPRIATE LANES AND PERFORM THE REQUIRED BRIDGE REHABILITATION OPERATIONS. ONE LANE OF TRAFFIC IN EACH DIRECTION MUST BE MAINTAINED AT ALL TIMES.

HOMINY CREEK ROAD - USE ROADWAY STANDARD DRAWING NO. 1101.02 AND FLAGGERS, CLOSE THE APPROPRIATE LANES AND PERFORM THE REQUIRED WORK UNDER THE BRIDGES. ONE LANE OF TRAFFIC IN EACH DIRECTION MUST BE MAINTAINED AT ALL TIMES.

BRIDGE #377 AND #378

I-40 - USE ROADWAY STANDARD DRAWING NO. 1101.02, CLOSE THE APPROPRIATE LANES AND PERFORM THE REQUIRED MILLING, PAVING AND OTHER BRIDGE REHABILITATION OPERATIONS. ONE LANE OF TRAFFIC IN EACH DIRECTION MUST BE MAINTAINED AT ALL TIMES.

APPROACH ROAD - USE ROADWAY STANDARD DRAWING NO. 1101.02 AND FLAGGING OPERATIONS, CLOSE THE APPROPRIATE LANES AND PERFORM THE REQUIRED WORK UNDER THE BRIDGES. ONE LANE OF TRAFFIC IN EACH DIRECTION MUST BE MAINTAINED AT ALL TIMES.

BRIDGE #369 AND #374

I-40 - USE ROADWAY STANDARD DRAWING NO. 1101.02, CLOSE THE APPROPRIATE LANES AND PERFORM THE REQUIRED MILLING, PAVING AND OTHER BRIDGE REHABILITATION OPERATIONS. ONE LANE OF TRAFFIC IN EACH DIRECTION MUST BE MAINTAINED AT ALL TIMES. REMOVE GUARDRAIL AS REQUIRED.

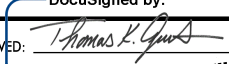


BILTMORE ESTATE ROAD FOR THE REPLACEMENT OBEAM #6 FOR BRIDGE #369, USE ROADWAY STANDARD DRAWING NO. 1101.03 AND CLOSE BILTMORE ESTATE ROAD.

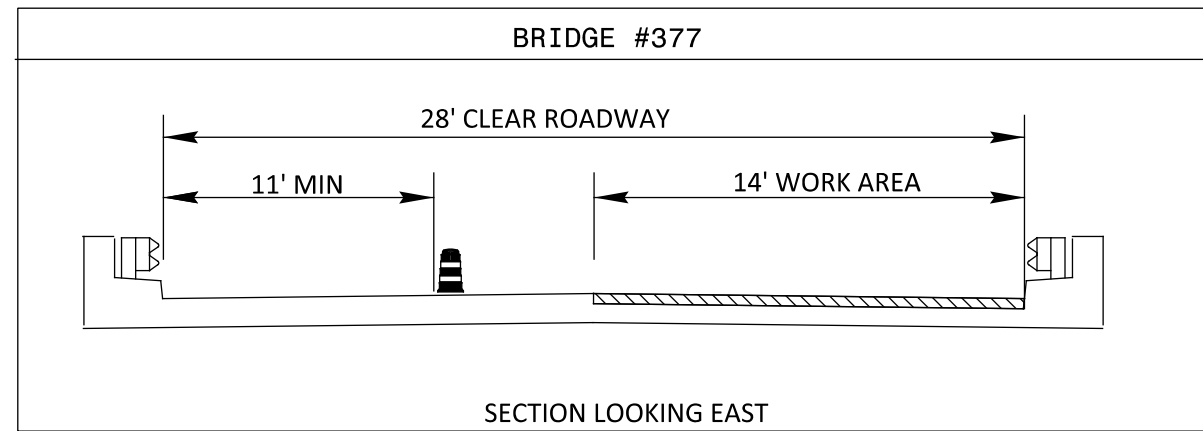
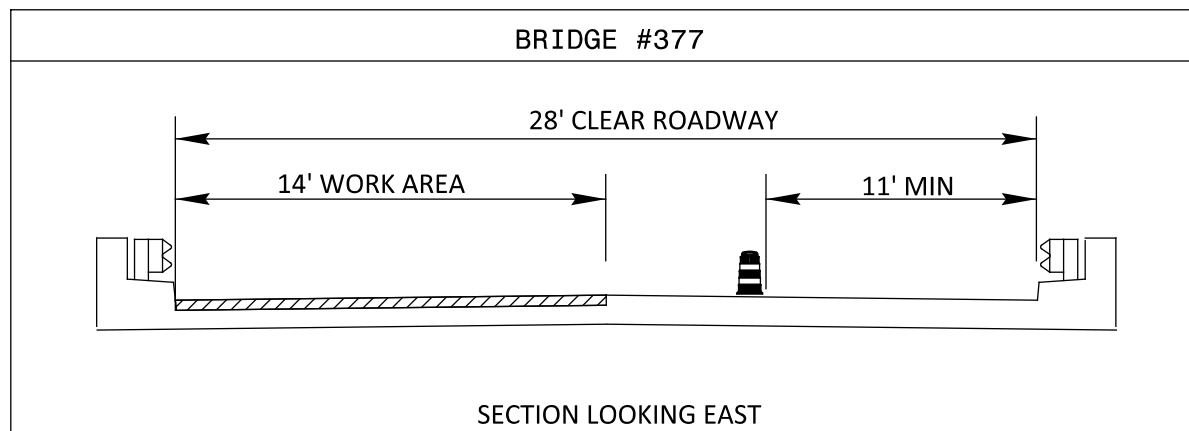
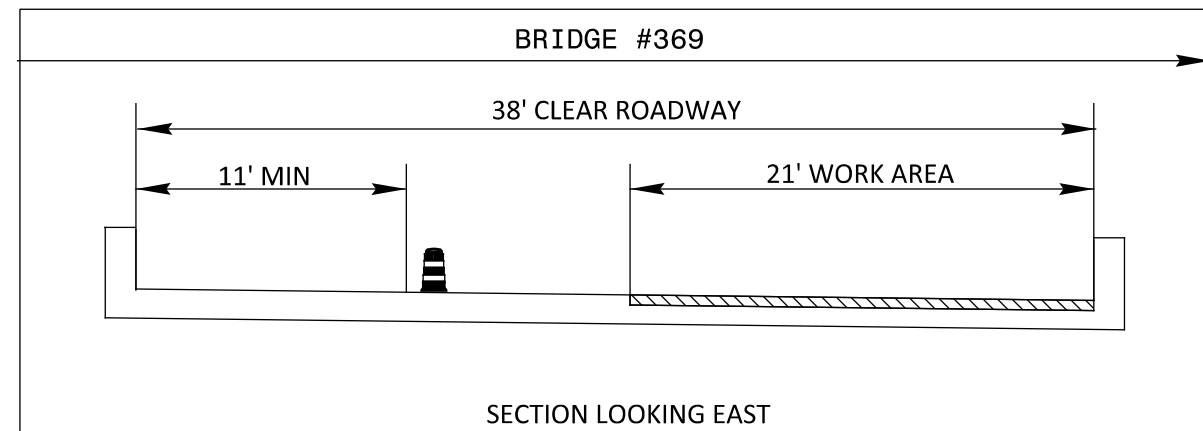
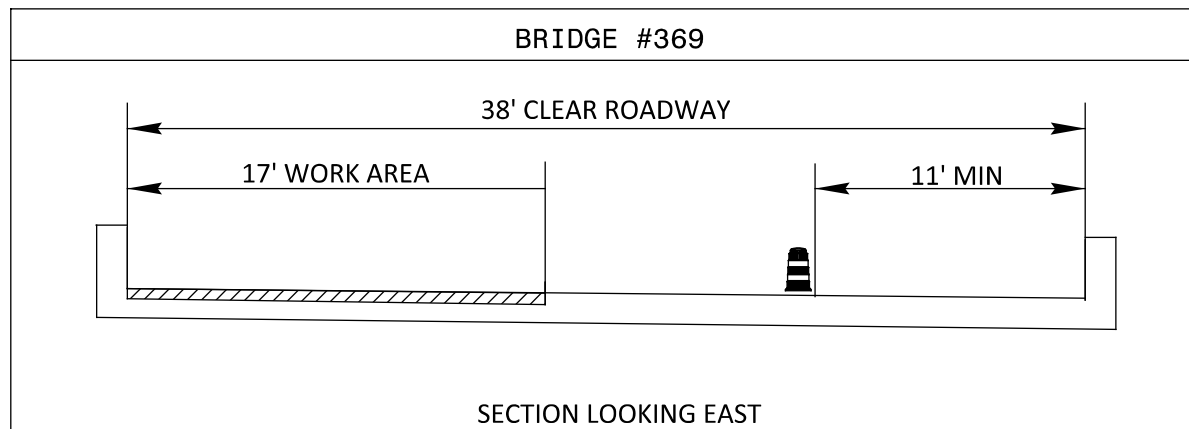
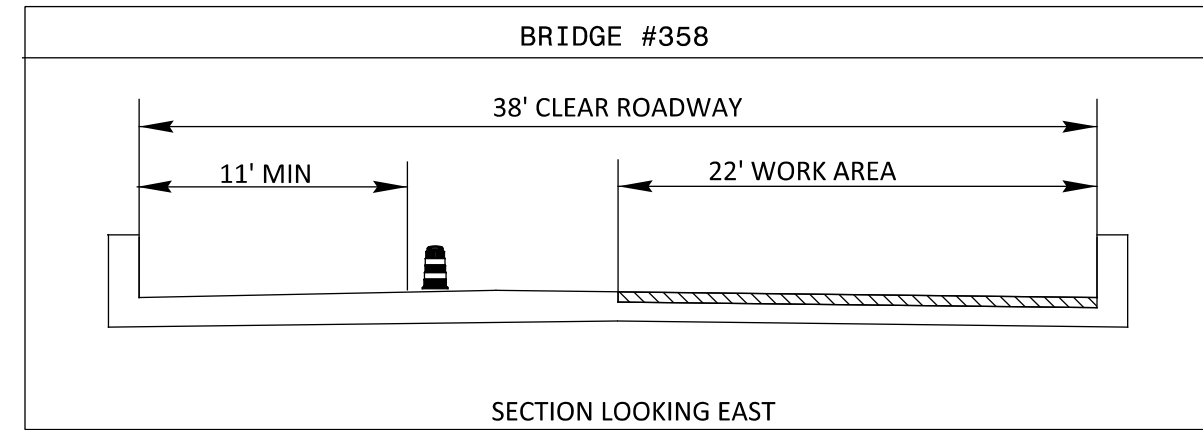
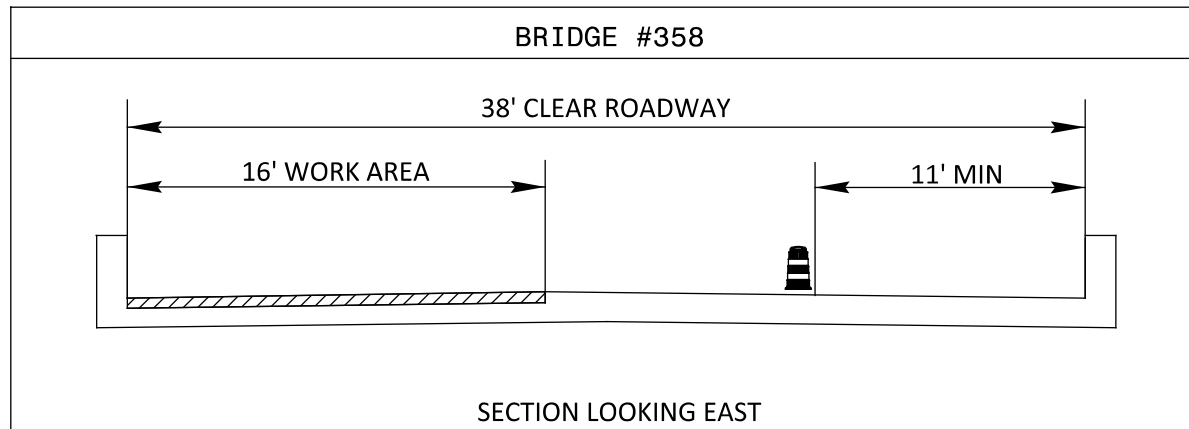
BRIDGE #358 AND #366

I-40 - USE ROADWAY STANDARD DRAWING NO. 1101.02, CLOSE THE APPROPRIATE LANES AND PERFORM THE REQUIRED MILLING, PAVING AND OTHER BRIDGE REHABILITATION OPERATIONS. ONE LANE OF TRAFFIC IN EACH DIRECTION MUST BE MAINTAINED AT ALL TIMES. REMOVE GUARDRAIL AS REQUIRED.

WINERY ROAD - USE ROADWAY STANDARD DRAWING NO. 1101.02 AND FLAGGING OPERATIONS, CLOSE THE APPROPRIATE LANES AND PERFORM THE REQUIRED WORK UNDER THE BRIDGES. ONE LANE OF TRAFFIC IN EACH DIRECTION MUST BE MAINTAINED AT ALL TIMES.

\$\$\$ SYSTEM TIME \$\$\$
 \$\$\$ USER NAME \$\$\$
 \$\$\$ USER ID \$\$\$
 \$\$\$ USER NAME \$\$\$
 \$\$\$ USER ID \$\$\$

DocuSigned by: APPROVED:  DATE: 11/15/2017 27268C2E163A4D8			PHASING
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



\$\$\$ SYSTEM TIME \$\$\$
 \$\$\$ USER: JGONSON \$\$\$
 \$\$\$ SESSION NAME \$\$\$

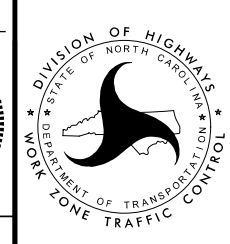
NOTE: TYPICALS FOR #358 AND #365 SHOWN WITH BRIDGE MOUNTED GUARDRAIL REMOVED

PLANS PREPARED BY:
Gannett Fleming
 Excellence Delivered As Promised
 2610 Wycliff Road
 Suite 102
 Raleigh, NC 27607-3073
 (919) 420-7660
 NC Lic. No. F-0270

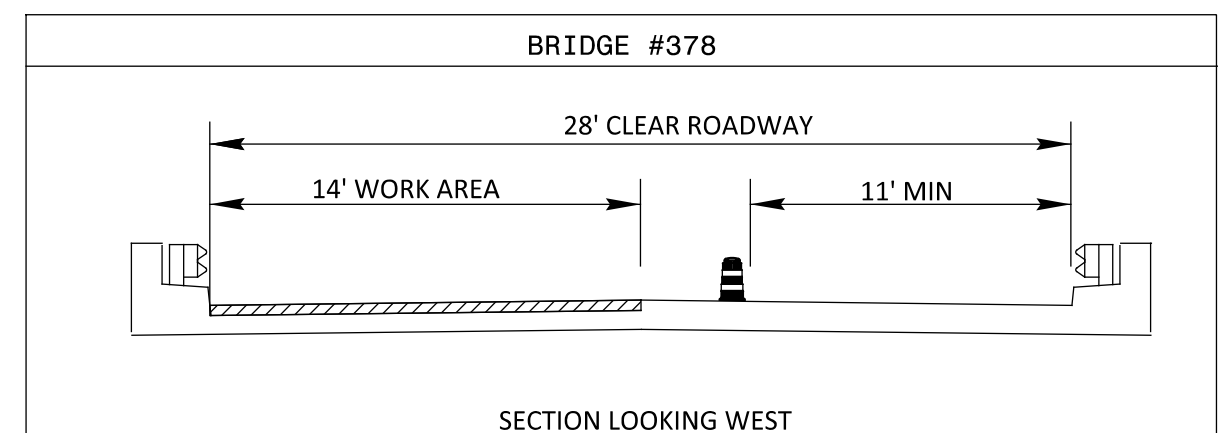
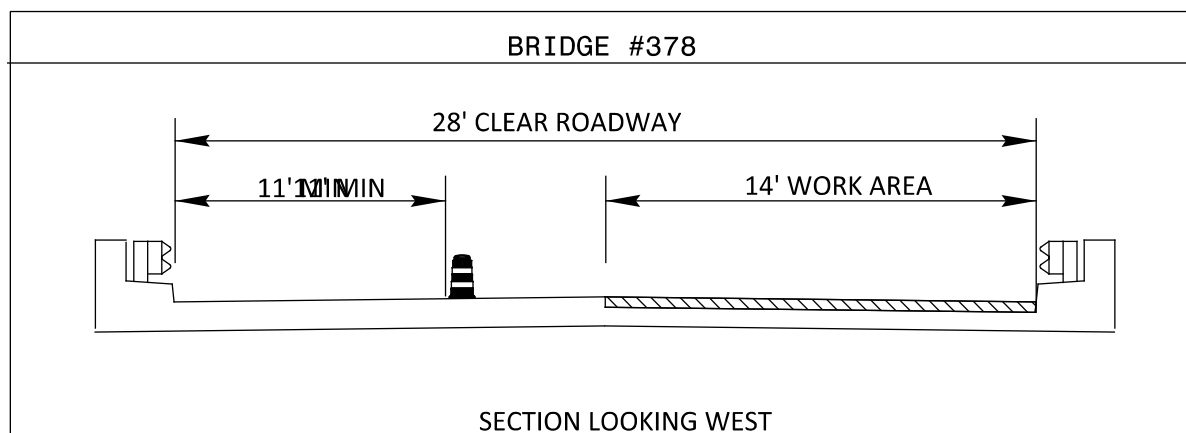
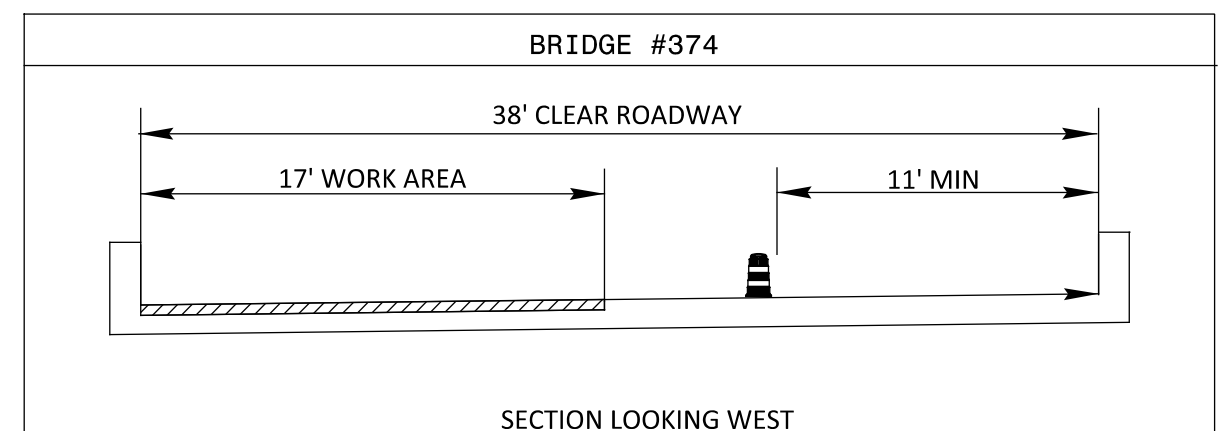
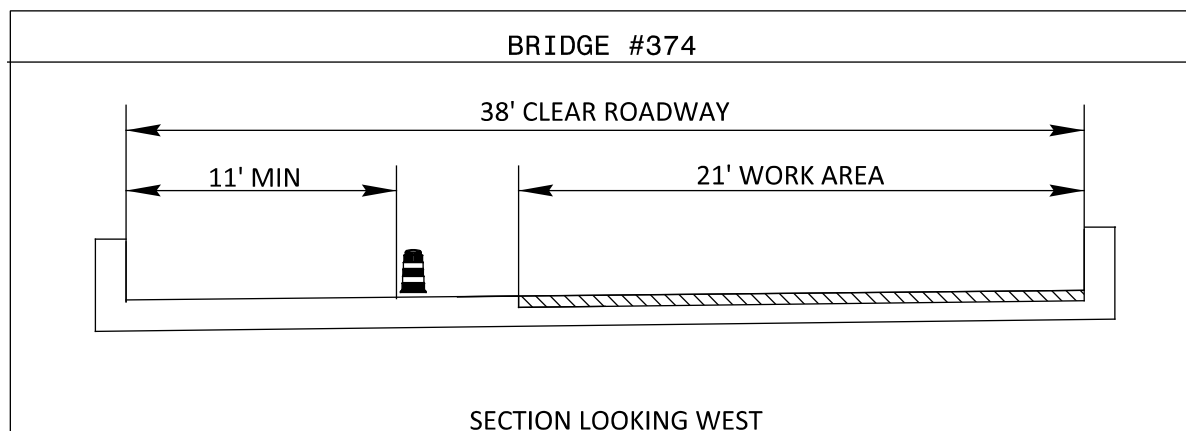
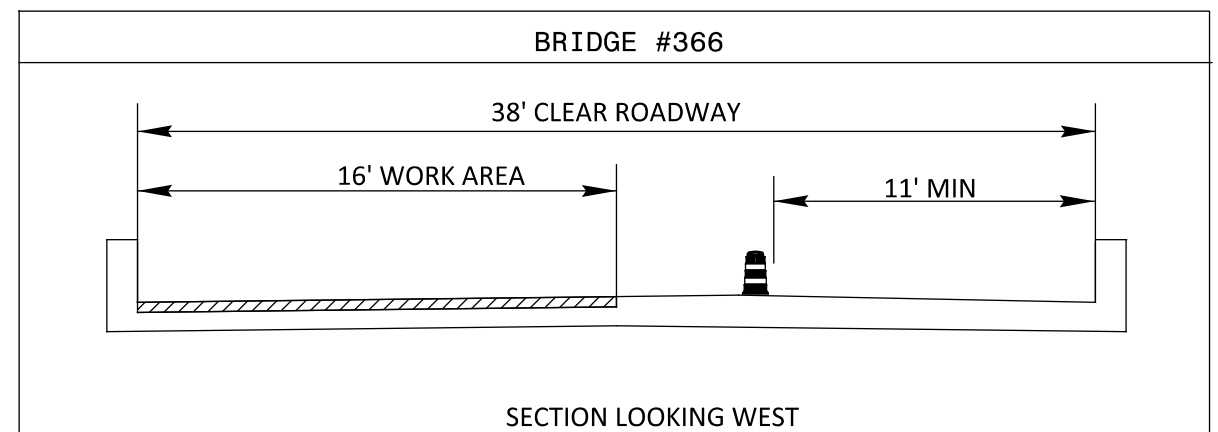
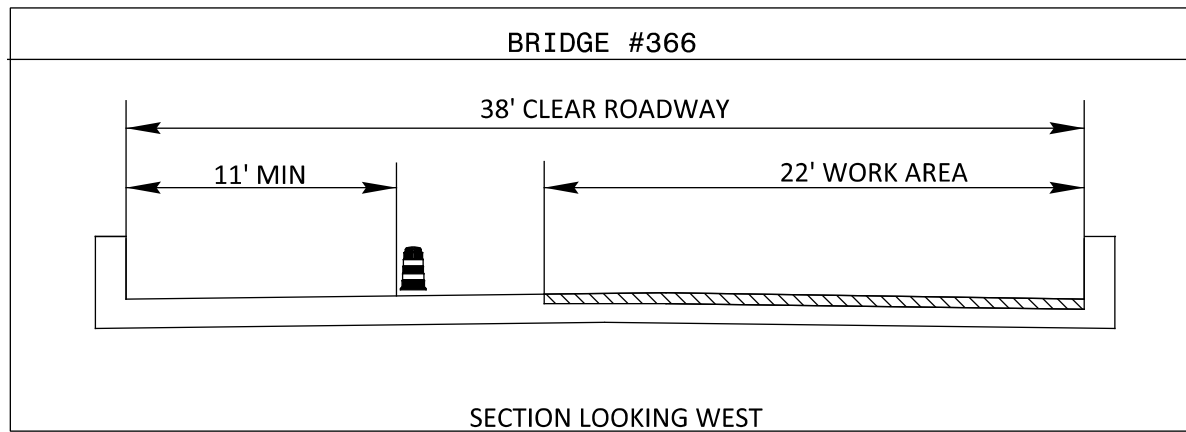
DocuSigned by:
 APPROVED: *Thomas K. Goodwin*
 DATE: 27268C2E163A4D8
 11/15/2017

PROFESSIONAL SEAL
 012975
 ENGINEER
 THOMAS K. GOODWIN

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



TRAFFIC CONTROL PHASING
 &
 BRIDGE TYPICAL SECTIONS
 WESTBOUND

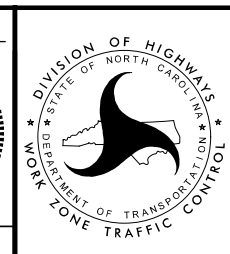


\$\$\$ SYSTEM TIME \$\$\$
 \$\$\$ DATE OF PLOT: 11/15/2017 \$\$\$
 \$\$\$ USER: JG \$\$\$

NOTE: TYPICALS FOR #358 AND #365 SHOWN WITH BRIDGE MOUNTED GUARDRAIL REMOVED

PLANS PREPARED BY:
Gannett Fleming
 Excellence Delivered As Promised
 2610 Wycliff Road
 Suite 102
 Raleigh, NC 27607-3073
 (919) 420-7660
 NC Lic. No. F-0270

DocuSigned by:
 APPROVED: *Thomas K. Goodwin*
 DATE: 11/15/2017
 27268C2E163A4D8
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 012975
 ENGINEER
 THOMAS K. GOODWIN



TRAFFIC CONTROL PHASING
 &
 BRIDGE TYPICAL SECTIONS
 EASTBOUND

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED